

Academic Year	2023/2024
العام الدراسي	
Term	1
الفصل	
Subject	Physics- Inspire
المادة	
Grade	10
الصف	
Stream	General
المسار	
Number of MCQ	15
عدد الأسئلة الموضوعية	
Marks of MCQ	4
درجة الأسئلة الموضوعية	
Number of FRQ	5
عدد الأسئلة المقالية	
Marks per FRQ	04-Oct
الدرجات للأسئلة المقالية	
Type of All Questions	MCQ/ الأسئلة الموضوعية
نوع كافة الأسئلة	FRQ/ الأسئلة المقالية
Maximum Overall Grade	100
الدرجة القصوى الممكنة	
Exam Duration	150 minutes
مدة الامتحان	
Mode of Implementation	SwiftAssess & Paper-Based
طريقة التطبيق	
Calculator	Allowed
أداة الحاسبة	مسموحة

Question*	Learning Outcome/Performance Criteria**	Reference(s) in the Student Book	
		المراجع في كتاب الطالب	
		Example/Exercise	Page
السؤال*	نتائج التعلم / معايير الأداء**	مثال/تمرين	الصفحة
الأسئلة الموضوعية - MCQ	1	Relate the slope of a velocity time graph to the average acceleration of the object in motion	example 368
	2	Apply the equation of motion relating the final velocity of an object to its initial velocity, uniform acceleration, and time ( $v_f = v_i + at$ )	problems 5,663
	3	Use appropriate significant figures to record answers from a mathematical operation, with the correct number of digits	problem 813
	4	Differentiate between distance travelled and displacement	figure 1037
	5	Apply the equation of motion, ( $x_f = vavg t + x_i$ ) or ( $x_f - x_i = vavg t$ ), in numerical problems to calculate the position or other physical quantities	exmple 448
	6	Classify physical quantities into vector and scalar quantities (distance, mass, displacement, speed, velocity, acceleration, force, work, energy, pressure)	as mentioned in the book34
	7	Apply the alternative equation of motion relating an object's final velocity to its initial velocity, its constant acceleration, and its initial and final positions ( $v_f^2 = v_i^2 + 2a(x_f - x_i)$ )	problem 1667
	8	Define a coordinate system and identify the origin, position, and distance in a coordinate system	figure 936
	9	Describe the motion of an object if its velocity and acceleration are either in the same directions or opposite directions, hence state if an object is slowing down or speeding up	as mentioned in the book57
	10	Define and calculate the average acceleration	problem 1264
	11	Recognize uniform or non-uniform motion from a motion diagram or a particle model	figure 257
	12	Calculate the displacement as the area under the curve of a velocity-time graph	problem 262
	13	Classify physical quantities into vector and scalar quantities (distance, mass, displacement, speed, velocity, acceleration, force, work, energy, pressure)	as mentioned in the book34
	14	Interpret the velocity-time graph for a single or multiple objects in motion	figure 659
	15	Define displacement as the change in an object's position Define average velocity and average acceleration	as mentioned in the book34 44, 60
الأسئلة المقالية - FRQ	16	Plot a position-time graph given position-time values.	table 1 and figure 1138
	17	Represent data in graphical form, draw the best fit line, and identify from the shape of the graph if the relationship between the variables is linear, quadratic or inverse Find the slope from the graph of a linear relationship	as mentioned in the book20-22
	18	A. Apply the equation of motion relating the final position of an object to its initial position, initial velocity, uniform acceleration, and time	example 470
	19	Define and identify independent and dependent variables for a given data set	as mentioned in the book18
	20	Interpret a position-time graph that represents the motion of a single object Interpret a position-time graph that represents the motion of multiple objects	example problem 241
<p>* Questions might appear in a different order in the actual exam, or on the exam paper in the case of G3 and G4.</p> <p>قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان في حالة الصفين G3 وG4.</p>			
<p>** As it appears in the textbook, LMS, and (Main_IP).</p> <p>كما وردت في كتاب الطالب وLMS والخطة الفصلية.</p>			